



Solve each problem.

**Answers**

- 1) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with  $y$  representing the total cost in dollars for  $x$  kilowatt hours.

**Company A**

Total Kilowatt-Hours	Total Cost (\$)
1315	105.20
1304	104.32

**Company B**

$$y = 0.08x$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Find the total cost in dollars of buying 1,254 kilowatt hours of electricity from the cheapest company.

- 2) Two companies are selling beef jerky by the pound. The cost of jerky for Company A is represented in the table below, while the cost for Company B is represented by an equation, with  $y$  representing the total cost in dollars for  $x$  pounds of jerky.

**Company A**

Total Pounds	Total Cost (\$)
11	286.00
14	364.00

**Company B**

$$y = 30.00x$$

Find the total cost in dollars of buying 11 pounds of jerky from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

Square Feet	Total Price (\$)
1869	214,935
1423	163,645

**Contractor B**

$$y = 116x$$

What is the difference in the price per square foot between contractor A and contractor B?



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**Company A**

Total Kilowatt-Hours	Total Cost (\$)
1315	105.20
1304	104.32

$y = 0.08x$

**Company B**

$y = 0.08x$

Find the total cost in dollars of buying 1,254 kilowatt hours of electricity from the cheapest company.

- 2) Two companies are selling beef jerky by the pound. The cost of jerky for Company A is represented in the table below, while the cost for Company B is represented by an equation, with  $y$  representing the total cost in dollars for  $x$  pounds of jerky.

**Company A**

Total Pounds	Total Cost (\$)
11	286.00
14	364.00

$y = 26.00x$

**Company B**

$y = 30.00x$

Find the total cost in dollars of buying 11 pounds of jerky from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

Square Feet	Total Price (\$)
1869	214,935
1423	163,645

$y = 115x$

**Contractor B**

$y = 116x$

What is the difference in the price per square foot between contractor A and contractor B?

Answers

1. 100.32

2. 330

3. 1